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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,651	03/01/2004	James F. Zucherman	19433A-000154US	9758
20350	7590	07/18/2007	EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			CUMBERLEDGE, JERRY L	
TWO EMBARCADERO CENTER			ART UNIT	PAPER NUMBER
EIGHTH FLOOR			3733	
SAN FRANCISCO, CA 94111-3834				
MAIL DATE		DELIVERY MODE		
07/18/2007		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/790,651	ZUCHERMAN ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Jerry Cumberledge	3733

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 01 May 2007.
- 2a) This action is **FINAL**.                                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-47 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-47 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 01 March 2004 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-47 are rejected under 35 U.S.C. 102(e) as being anticipated by Brumfield et al. (US Pat. 5,562,662).

Brumfield et al. disclose a method for lateral insertion of an interspinous process implant comprising the steps of: accessing an upper and a lower spinous process laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); inserting the interspinous process implant (Fig. 2, ref. 20) between the spinous processes from a first lateral side of the spinous processes (Fig. 2)(column 9, lines 55-57, since in passing through the bores in ref. 29, it must pass from one side to the other side) and causing the interspinous process implant inserted by the inserting step to deploy adjacent a second lateral side of at least one of the upper and lower spinous processes (column 10, lines 3-14). The definition of "deploy" according to the Merriam-Webster Online Dictionary is "to spread out, utilize, or arrange for a deliberate purpose." The device of Brumfield et al. can be considered to be deployed, since it is being utilized and arranged for a deliberate purpose (i.e. to draw the rods 21 together, column 10, lines 10-14) and is adjacent to the spinal processes on both sides (Fig. 2). The method further comprises

a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref. 137, and the distracting step and the inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. The insertion step causes a wing (Fig. 3C, ref. 27) to be positioned adjacent to the first lateral side of at least one of the spinous processes (Fig. 2, since refs. 27 are on both lateral sides). The causing step causes a wing (Fig. 3C, ref. 27) to be deployed adjacent to the second lateral side (Fig. 2, since refs. 27 are on both lateral sides) of at least one of the spinous processes. The insertion step causes a first wing (Fig. 3C, ref. 27) to be positioned adjacent to the first lateral side of at least one of the spinous processes (Fig. 2, since refs. 27 are on both lateral sides) and the causing step causes a second wing (Fig. 3C, ref. 27) to be deployed adjacent to at least one of the second lateral sides of the spinous processes (Fig. 2, since refs. 27 are on both lateral sides).

Brumfield et al. disclose a method for lateral insertion of an interspinous process implant comprising the steps of accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); inserting the interspinous process implant (Fig. 2, ref. 20) between the spinous processes from a first lateral side of the spinous processes (Fig. 2)(column 9, lines 55-57, since in passing through the bores in ref. 29, it must pass from one side to the other side); urging the interspinous process

implant through to the second lateral side of the spinous processes (Fig. 2)[column 9, lines 55-57, since in passing through the bores in ref. 29, it must pass from one side to the other side, and must be pushed (e.g. urged) into position]; and causing the interspinous process implant inserted by the inserting step to deploy adjacent a second lateral side of at least one of the spinous processes (column 10, lines 3-14). The definition of "deploy" according to the Merriam-Webster Online Dictionary is "to spread out, utilize, or arrange for a deliberate purpose." The device of Brumfield et al. can be considered to be deployed, since it is being utilized and arranged for a deliberate purpose (i.e. to draw the rods 21 together, column 10, lines 10-14) and is adjacent to the spinal processes on both sides (Fig. 2).

Brumfield et al. disclose a method for lateral insertion of an interspinous process implant comprising the steps of: accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); inserting the interspinous process implant (Fig. 2, ref. 20) between the spinous processes from a first lateral side of the spinous processes (Fig. 2)(column 9, lines 55-57, since in passing through the bores in ref. 29, it must pass from one side to the other side); and positioning the interspinous process implant inserted in the inserting step (column 10, lines 10-14), where the interspinous process implant extends from a second lateral side (Fig. 2, since it extends along both lateral sides). The method further comprises a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref. 137, and the distracting step and the

inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. The insertion step places an interspinous process implant member (Fig. 2, ref. 38) adjacent to the first lateral side of at least one of the spinous processes. The interspinous process implant member is selected from a wing, an arm, a leg (Fig. 2, ref. 38), and a hook. The positioning step places an interspinous process implant member (Fig. 2, ref. 38) adjacent to the second lateral side of at least one of the spinous processes (Fig. 2). The interspinous process implant member is selected from a wing, an arm, a leg (Fig. 2, ref. 38), and a hook.

Brumfield et al. disclose a method for the lateral insertion of an interspinous process implant, where the steps of inserting the interspinous process implant comprise: accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); inserting the interspinous process implant (Fig. 2, ref. 20) laterally between the spinous processes (Fig. 2, near ref. 38), said interspinous process implant comprising a body (Fig. 2, refs. 21 and 38) having a deployable interspinous process implant member (Fig. 2, ref. 38 and ref. 21 on one side of processes); and deploying the implant member (column 10, lines 3-14), where the implant member extends from a second lateral side of the spinous processes. The method further comprises a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref.

137, and the distracting step and the inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. The insertion step places an interspinous process implant member (Fig. 2, ref. 38 and ref. 21 on one side of processes) adjacent to the first lateral side of at least one of the spinous processes (Fig. 2). The interspinous process implant member is selected from a wing, an arm, a leg (Fig. 2, ref. 38 and ref. 21 on one side of processes), and a hook. The deploying step places an interspinous process implant member (Fig. 2, ref. 38 and ref. 21 on one side of processes) adjacent to the second lateral side of at least one of the spinous processes (Fig. 2). The interspinous process implant member is selected from a wing, an arm, a leg (Fig. 2, ref. 38 and ref. 21 on one side of processes), and a hook. The step of inserting further comprises using at least one tool (column 9, lines 65-67, i.e. driving tool) for lateral insertion of the interspinous process implant (Fig. 2).

Brumfield et al. disclose a method for the lateral insertion of an interspinous process implant, where the steps of inserting the interspinous process implant comprise: accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); and inserting the interspinous process implant (Fig. 2, ref. 20) laterally between said spinous processes (Fig. 2, near ref. 38), said interspinous process implant comprising: a body (Fig. 2, refs. 21 and 38) adapted to be placed between spinous processes (Fig. 2, ref. 38), where the body has a proximal end (Fig. 2,

end near ref. 38) and a distal end (Fig. 2, end opposite proximal end); and a distraction guide (Fig. 2, ref. 25) extending from the distal end of the body. The method further comprises a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref. 137, and the distracting step and the inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. The step of inserting further comprises using at least one tool (column 9, lines 65-67, i.e. driving tool) for lateral insertion of the interspinous process implant (Fig. 2). The interspinous process implant further comprises at least one wing (Fig. 2, any of refs. 25).

Brumfield et al. disclose a method for the lateral insertion of an interspinous process implant, where the steps of inserting the interspinous process implant comprise: accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); and inserting the interspinous process implant laterally between said spinous processes (Fig. 2, portion near ref. 38), said interspinous process implant comprising: a central body (Fig. 2, refs. 21 and 38) with a proximal end (Fig. 2, end near ref. 38) and a distal end (Fig. 2, end opposite proximal end) , said central body having a longitudinal axis (along the length of the body); a sleeve (Fig. 12, refs. 115, 137 and 135) associated with the central body (Fig. 12), where the sleeve is adapted to be

placed between spinous processes; and a distraction guide (Fig. 2, ref. 25) extending from the distal end of the central body (Fig. 2). The method further comprises a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref. 137, and the distracting step and the inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. The step of inserting further comprises using at least one tool (column 9, lines 65-67, i.e. driving tool) for lateral insertion of the interspinous process implant (Fig. 2). The interspinous process implant further comprises at least one wing (Fig. 2, any of refs. 25).

Brumfield et al. disclose a method for the lateral insertion of an interspinous process implant, where the steps of inserting the interspinous process implant comprise: accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); and inserting the interspinous process implant (Fig. 2, ref. 20) laterally between said spinous processes (Fig. 2, portion near ref. 38), said interspinous process implant comprising: a central body (Fig. 2, refs. 21 and 38) with a proximal end (Fig. 2, end near ref. 38) and a distal end (Fig. 2, end opposite proximal end), said central body having a longitudinal axis (the axis along the length of the device); a wing (Fig. 2, ref. 25) located at the proximal end of the central body; a sleeve (Fig. 12, ref. 115) associated with the central body, where the sleeve is adapted to be placed

between spinous processes; and a distraction guide (Fig. 2, ref. 25) extending from the distal end of the central body. The method further comprises a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref. 137, and the distracting step and the inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. The step of inserting further comprises using at least one tool (column 9, lines 65-67, i.e. driving tool) for lateral insertion of the interspinous process implant (Fig. 2). The interspinous process implant further comprises a second wing (Fig. 12, ref. 25) located near the distal end of the central body.

Brumfield et al. disclose a method for the lateral insertion of an interspinous process implant, where the steps of inserting the interspinous process implant comprise: accessing the spinous processes laterally (Fig. 2)(column 5, lines 51-55) (column 9, lines 50-53); and inserting the interspinous process implant laterally between said spinous processes (Fig. 2, portion near ref. 38), said interspinous process implant comprising: a body (Fig. 2, refs. 21 and 38) adapted to be placed between spinous processes, the body having a proximal end (Fig. 2, end closer to ref. 38) defining a first saddle (Fig. 2, ref. 28, top right), and a distal end (Fig. 2, end further from ref. 38) defining a second saddle (Fig. 2, ref. 28, top left); and the first saddle and the second

saddle are adapted to receive adjacent spinous processes. The method further comprises a step of distracting the spinous processes apart, since, as seen in Fig. 12, ref. 137 is placed in between ref. 142 and V1, which would necessarily distract the components (e.g. the spinous processes on adjacent vertebrae) that are adjacent to ref. 137, and the distracting step and the inserting step are done in any order. The method further comprises a step of distracting the spinous processes apart, where the distracting step and the inserting step are done simultaneously, since the step of inserting can be considered to include inserting refs. 137 into position as shown in Fig. 12. After the insertion step the method further comprises a step of positioning the interspinous process implant (column 10, lines 10-14) between the spinous processes (Fig. 2, near ref. 38). The interspinous process implant further comprises positioning means (Fig. 2, refs. 25), where the positioning means retain the interspinous process implant between the spinous processes to limit extension and allow flexion. The positioning means is a tether (Fig. 2, refs. 25). The positioning means is a pin (Fig. 2, refs. 25). The positioning means is at least one arm extending from the proximal end and distal end of the interspinous process implant (Fig. 2, refs. 25). The positioning means further comprises a tether (Fig. 2, refs. 25). The step of inserting further comprises using at least one tool (column 9, lines 65-67, i.e. driving tool) for lateral insertion of the interspinous process implant.

***Response to Arguments***

Applicant's arguments filed 05/01/2007 have been fully considered but they are not persuasive.

With regard to Applicant's argument that Brumfield does not disclose lateral insertion of an interspinous process implant, the Examiner respectfully disagrees. The spinous process implant of Brumfield is located on the lateral sides of the spine (Fig. 2), therefore Brumfield discloses lateral insertion of an interspinous process implant, since if the device is to be implanted laterally with regard to the spine it first must be inserted laterally.

Specifically with regard to Applicant's arguments directed towards Fig. 2 and column 5, lines 55-57, there is a portion of the implant that is referred to by Brumfield as ref. 38, or a transverse connector. This connector is configured to pass through stem bores of rod connectors 29 engaged to each of the two rods (column 9, lines 55-57) as stated in the previous Action. This means that at some point the transverse connector must be passed through one of the bores of one rod connector and across and into the bore of the other rod connector. Logically, this step can take place before or after the longitudinal rods of ref. 21 have been implanted in the body. The disclosure of Brumfield suggests that this step takes place after the initial implantation of the rods of ref. 21. In column 13, claim 1, the method begins with (1) implanting several fixation elements... and (2) implanting a spinal rod...Dependent claim 5 then claims steps of (1) implanting a transverse connector and (2) connecting a transverse connector to the spinal rod. Since claim 5 states that the transverse connector is implanted and then connected to the spinal rod, this means that there must already be a spinal rod (or rods, since the

transverse connector is disclosed as connecting two rods, as in Fig. 2) present in the body adjacent the spine. Since the transverse connector is placed through the bores of the rod connectors, the only path which the transverse connector can take is to initially be placed on one side of the spine, be pushed through a bore of one of the rod connectors, continue to be pushed towards the other bore of the connector, which will cause the implant to follow a path between the upper and lower spinous processes (Fig. 2), and then to finally be received in the other bore of the other connector. Then the implant can be deployed as stated in the above rejections.

With regard to Applicant's argument that the device is not deployed, the Examiner respectfully disagrees. The Examiner asserts that the deployment of the device of Brumfield is consistent with the plain meaning of the word deployed as shown above from the definition of "deploy".

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

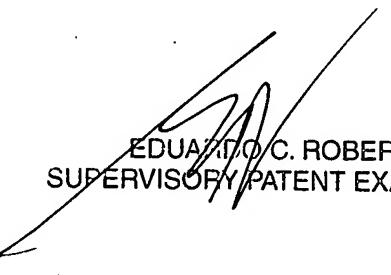
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Cumberledge whose telephone number is (571) 272-2289. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JLC

  
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SUPERVISORY PATENT EXAMINER

